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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,126		11/13/2003	Kazuhisa Yamamoto	YAO-3750US4	7681
23122	7590	05/05/2006		EXAMINER	
RATNERPF	RESTIA		NGUYEN, DUNG T		
P O BOX 980 VALLEY FORGE, PA 19482-0980				ART UNIT	PAPER NUMBER
				2828	
			DATE MAILED: 05/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/712,126	YAMAMOTO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dung (Michael) T. Nguyen	2828					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 30 Ja	nuary 2006.						
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·=							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) 81,85,86 and 90 is/are pending in the application.							
4a) Of the above claim(s) <u>78-80,82-84 and 87-89</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>81,85,86 and 90</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>13 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the o		=					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 119(a)	o-(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 G.G.G. § 119(a)	-(d) or (i).					
1.☐ Certified copies of the priority documents	s have been received						
		on No					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
oee the attached detailed Office action for a list of the certified copies hot received.							
		,					
Attachment(s)							
I) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>11/13/03,12/21/05</u> .	6) Other:						

DETAILED ACTION

Election/Restrictions

Applicant's election of Species III with traverse along with Species I and II in the reply filed on 01/30/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement of between Species III with traverse along with Species I and II and Species IV, the election has been treated as an election without traverse (MPEP § 818.03(a)).

However; Applicant's election with traverse of Species III, claims 81, 86, and 90, in the reply filed on 01/30/06 is acknowledged.

I The traversal is on the ground(s) that dependent claim 85 belong in Species III.

This is found persuasive because dependent claim 85 indeed belongs to Species III. Therefore, it will be examined along with Species III.

II The traversal is on the ground(s) that independent claim 81 is generic to all of the claims of Species I, II, and III (claims 78-79, 81-83, 85-88, and 90). This is found persuasive.

Upon the allowance of generic claim 81, the non-elected claims 78-79, 82-83, and 87-88 will be considered for rejoinder. However, because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election requirement is made final.

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Priority

Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d) prior to declaration of an interference, a translation of the foreign application should be submitted under 37 CFR 1.55 in reply to this action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 81, 85-86, and 90 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuura et al. (5363117) in view of Byer et al. (5036220).

With respect to claims 81 and 85, Matsuura et al. show in Fig.4 a laser device, comprising:

at least one laser light source (30) including a semiconductor laser (laser diode);

a first optical system (4) for irradiating a spatial modulation element (7) (liquid crystal cell in column 4, line 56-57) with laser light emitted from the laser light source; and

a second optical system (12) for irradiating a screen (9) with the light emitted from the spatial modulation element.

Matsuura et al. lack the laser light source further includes an optical wavelength conversion element in which periodic domain inverted structures are formed.

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Byer et al. teach in Fig.1 the laser light source includes an optical wavelength conversion (11) element in which periodic domain inverted structures are formed (column 5, lines 46-49).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Matsuura et al. what is taught by Byer et al. to convert the laser source radiation frequency to the desired optical frequency (column 4, lines 1-3).

With respect to claim 86, Byer et al. disclose in fig.1 an optical waveguide (17) for guiding the laser light from the semiconductor (column 4, lines 29-30).

With respect to claim 90, Matsuura et al. disclose the semiconductor laser is wavelength-locked (constant) (column 13, lines 24-25) (the claim recites the semiconductor laser is wavelength-locked and that means the semiconductor laser has a constant wavelength).

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

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Michael Dung Nguyen

04/23/06